### ВЫВОДНОЙ СВЕТОДИОД КРУГЛЫЙ ARL-10203VC

7 The source color devices are made with InGaN on SiC

 This device radiates intense ultraviolet (UV) light when operated. Most of the UV light emitted is not visible.
Exposure to UV radiation can be harmful to your health.

look directly at the device during the operation.

Protect your eyes and skin during the operation. Do not

Exposure to UV light, even for a brief period, can damage

7 Do not permit children or untrained personnel to operate

It is recommended to use a wrist band or anti-static

7 Do not operate the device unless you have had proper

safety training and take appropriate precautions.

### FEATURES

- Low power consumption.
- General purpose leads.
- Reliable and rugged.
- Long life solid state reliability.
- Available on tape and reel.

DESCRIPTIONS

light emitting diode.

your eyes.

the device.

✓ RoHS compliant.

CLEAR

arlight

UVA

USAGE NOTES: Surge will damage the LED.

10 mm

When using LED, it must use a protective resistor in series with DC current about 20 mA.

Static electricity and surge damage the LEDs.

All devices, equipment and machinery must

gloves when handling the LEDs.

be electrically grounded.

# DEVICE SELECTION GUIDE

LED Part No		Lens Color		
LED PAILINO.	Material	Emitted Color	Lens Color	
ARL-10203VC	InGaN	Ultra Violet	Water Clear	









### PACKAGE DIMENSIONS





#### Unit: mm.

### Notes:

Other dimensions are in millimeters, tolerance is 0.25 mm except being specified.

Protruded resin under flange is 1.5 mm, Max LED.

Bare copper alloy is exposed at tie-bar portion after cutting.

### ABSOLUTE MAXIMUM RATING $(T_A = +25 \circ C)$

Parameter	Symbol	Absolute Maximum Rating	Unit
Forward Pulse Current	I <sub>FPM</sub>	100	mA
Forward Current	I <sub>FM</sub>	30	mA
Reverse Voltage	V <sub>R</sub>	5	v
Operating Temperature	Topr	-40 +80	°C
Storage Temperature	Tstg	-40 +100	°C
Soldering Heat (5s)	Tsol	260	°C

## ELECTRO-OPTICAL CHARACTERISTICS $(T_A = +25 \circ C)$

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition
Luminous Intensity	lv	100	200	350	mcd	lf=20mA (Note 1)
Viewing Angle	20 <sub>1/2</sub>	20	25	30	Deg	Note 2
Peak Emission Wavelength	λ <sub>P</sub>	395	400	—	nm	lf=20mA
Dominant Wavelength	Δλ	-	395	—	nm	lf=20mA
Forward Voltage	V <sub>F</sub>	3.0	3.3	3.5	v	lf=20mA
Reverse Current	I <sub>R</sub>	-	-	10	μA	VR=5V

#### Note:

1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.

2.  $\theta_{1/2}$  is the off-axis angle at which the luminous intensity is half the axial luminous intensity.

## TYPICAL ELECTRO-OPTICAL CHARACTERISTICS CURVES













Forward Current VS Relative Intensity



### **Radiation Characteristics**





### NOTES

- 1. Above specification may be changed without notice. HYLED will reserve authority on material change for above specification.
- 2. When using this product, please observe the absolute maximum ratings and the instructions for using outlined in these specification sheets. HYLED assumes no responsibility for any damage resulting from use of the product which does not comply with the absolute maximum ratings and the instructions included in these specification sheets.
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